In place of PTO-1449 Form	U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Complete if Known	
		Application Number	Not Yet Known
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	
		Applicant(s)	David Astely et al.
		Art Unit	Not Yet Known
		Examiner Name	Not Yet Known
SHEET 1 OF 1		Attorney Docket Number	P18773-US1

U. S. PATENT DOCUMENTS				
Examiner's Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document

FOREIGN PATENT DOCUMENTS					
Examiner's Initials	Cite No.	Foreign Patent Document (Country Code – Number – Kind)	Publication Date MM-DD-YYYY	Patentee or Applicant of Cited Document	Translation Y/N
	AA	EP 1265377 A2	12-11-2002	NEC Corporation	
	AB	WO 03077491 A1	09-18-2003	Kabushiki Kaisha Toshiba	

OTHER PRIOR ART		
Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item, date, page(s), volume-issue number(s), publisher, city/country where published
	AC	BANISTER, B.C. ET AL., "Implementation of Transmit Antenna Weight Adaptation Through Stochastic Gradient Feedback", 2001, pages 1517-1524, vol. 2, Signals, Systems and Computers, 2001 Conference Record of the Thirty-Fifth Asilomare Conference
	AD	BANISTER, B.C. ET AL., "A Stochastic Gradient Algorithm for Transmit Antenna Waight Adaptationi with Feedback", 2001, pages 314-317, Wirelerss Communications, 2001 IEEE Third Workshop on Signal Processing Advances
	AE	BANISTER, B.C. ET AL, "A Simple Gradient Sign Algorithm for Transmit Antenna Weight Adaptation with Feedback", May 2003, pages 1156-1171, vol. 51, Issue 5, Signal Processing, IEEE Transactions on
	AF	HALLE, B., "Algorithms and VLSI Architectures for RLS-Based Time Reference Beamforming in Mobile Communications", 1998, pagaa 29-36, International Zurich Seminar, Broadband Communications 1998
	AG	Swedish Patent Office, International Search Report for PCT/SE2003/02071, dated July 23, 2004

Examiner Signature		Date Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.